

# Fred Hoyle and Chandra Wickramasinghe vs. Stellar Metamorphosis: Is Panspermia Necessary?

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October 28, 2017  
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*Abstract: This paper will address the perceived necessity of ideas surrounding panspermia and all its variants in light of the general theory.*

The author has done an extreme amount of research into the issue of panspermia and has come to the conclusion that neither Fred Hoyle or Chandra Wickramasinghe have considered disposing of a specific underlying assumption that prevents accurate analysis of ideas concerning the formation of life. Thus, their ideas of panspermia, or life coming from outside of the Earth in any amount, are ill-fated. The simple unquestioned assumption is rooted in uniformitarianism, or essentially the belief that Earth as it stands now has mostly remain unchanged and shockingly similar to when it formed. The essence of panspermia is the unquestioned and unmentioned assumption that Earth did not evolve to its current state from a completely alien past. Therefore, we must first consider that Earth's history was never fully comprehended from the very beginning, in that it is an evolutionary structure that has changed in un-Earthly ways. Thus, the idea of Earth having been an alien world to us, vastly different than its past appearances and structure, must be considered, before any ideas concerning the formation of life from either internal abiogenic causes or outside influences. In short, Earth was not always "Earth". When scientists think up their ideas concerning the formation of life, they assume that Earth has always been more or less the same mass, the same chemical composition, the same level of differentiation, the same atmospheric thickness, the same orbit, the same host star, the same number of satellites, the same rate of heat dissipation and heat flux, etc. In fact, all of those characteristics were vastly different in Earth's early evolution, long before it took up its current orbit around the Sun. Earth was not always hospitable to life, nor did it change at any given rate under very few variables, but has morphed into its current state only after billions of years of evolution, way beyond what is currently recognized by astronomers and geologists. These principles are outlined in the general theory.

The evidence for Earth having been hostile to life, and essentially NOT-Earth, is all over the galaxy as exoplanet (evolving star) data continues to roll in at an accelerated rate. In fact, the more massive, chemically and structurally unique structures that the Earth resembled in its past are even observed in our own solar system, as the structures and objects that are contained in it are one stage or another of Earth's potential past. The

idea that Earth evolved to its current state, is also in line with Darwin's idea of life having common ancestors and evolved themselves to their current level of organization. What this means is that we can easily reason that panspermia can be shaved off with Ockham's Razor. Life did not need to come from outer space, as Earth was the alien object long before humans arrived which was seeding life itself, internally, from a much more chemically unique past. This of course is long before Earth even possessed the very complex and unique structures geologists refer to as rocks and minerals. This of course is very interesting, because it also means that our very essences as humans, and the vitamins and minerals that we receive from the environment that are essential (meaning we cannot produce them internally, such as iron, calcium, phosphorus, sodium, etc.) that are also found in rocks and minerals came to be while life was forming. Stated differently, rocks and minerals formed alongside life's beginnings.

What this all means is that not only is panspermia not necessary, but Darwin needed to go an extra step. All of life itself is related to the Earth and the very rocks and minerals that compose the very mountains themselves. Sure, we did not "evolve" from them, but we are intimately connected by our past, because without those basic elements that compose mountains and the very dirt on the ground, no life would exist as we know it. It is also becoming common knowledge:  
<https://www.smithsonianmag.com/science-nature/life-and-rocks-may-have-co-evolved-on-earth-180957807/>

Earth did not need to be seeded life from some outside source, it was the outside source itself. Panspermia is unnecessary. It was the alien world we observe in telescopes.

